

Why DWF?

When you need to share complex design data, only the Autodesk® DWF™ file format will do. Ideal for viewing, printing, and redlining, DWFs preserve all the rich detail of native CAD files, yet they're far more compact. No wonder DWF has become an industry standard for design and engineering professionals. It's the file format designed by Autodesk to be:



"With a PDF or GIF it's like you're getting a brochure of the design. DWF, on the other hand, is the design."

—Kevin Scott
Vice President of
Architecture and Design
Centex Homes

- **SMART** High fidelity format preserves design intelligence built into CAD files and 3D models, including object and mass properties, sheets and layers.
- **SMALL** Multilayered compression technology means that DWFs are often 1/20th the size of AutoCAD® files and 1/10th the size of PDFs.
- **SIMPLE** With the free Autodesk® DWF™ Viewer and one-click publishing from AutoCAD and other design applications, there's no need to buy additional software.

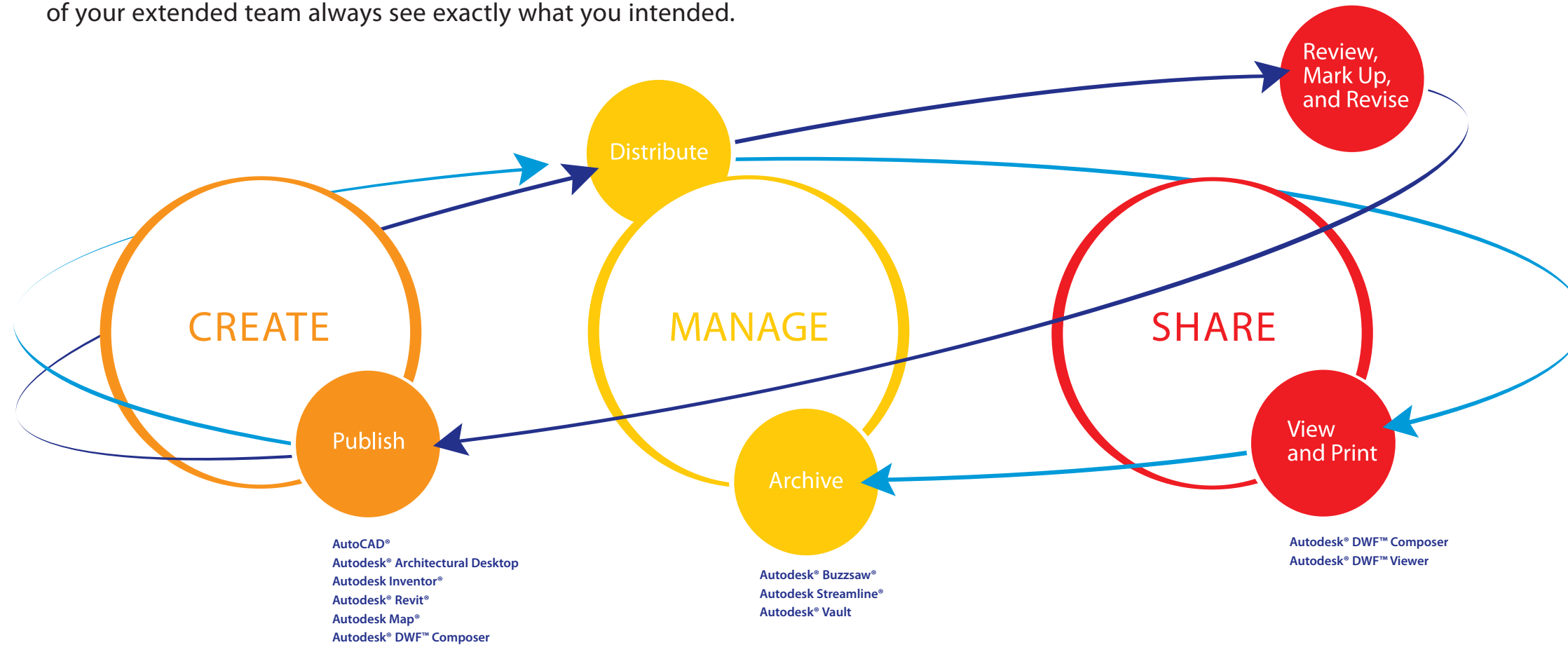
autodesk®

DWF: Roundtrip Design Power

The DWF file format is the way to go for sharing design information because it retains the intelligence of your original drawings, and ensures that the members of your extended team always see exactly what you intended.

"Using the DWF file format from Autodesk and Buzzsaw, we are going to save thousands of dollars not printing these big rolls of drawings and shipping them back and forth across the country. And we are going to get better information."

—John Bryant
Capital Asset Manager
Wyndham International



CREATE

- Publish from Autodesk design applications with a single click.
- Create with the downloadable Autodesk DWF Writer.
- Allow non-designers to see the full integrity of the designs, without requiring the original design application.
- Secure and protect the intellectual property of the designs.

MANAGE

- Smaller, faster and easier to send by email or post on the web.
- Paperless distribution reduces or eliminates overnight delivery costs.
- Services like Autodesk Buzzsaw or Streamline fully manage the distribution and review process online.
- Archive and save costly storage space.

SHARE

- View and navigate 2D and 3D designs with full fidelity.
- It's print-ready supporting large format printing of multiple sheets with a single file.
- Measure and redline designs without altering the underlying design data.
- Improve revisions bringing markups back into AutoCAD 2005-based applications.

Built-in DWF Publishing

Creating DWF files is free, and built into Autodesk design applications. In most applications you simply need to enter "publish" at the command or select Publish from the File menu system. A full set of instructions on how to publish from Autodesk design applications is available at www.autodesk.com/dwf.

Autodesk DWF Writer

The Autodesk DWF Writer is a certified Microsoft® Windows® system printer driver, allowing anyone to publish DWF files by simply selecting Autodesk DWF Writer from the Printer Name drop-down list in any Windows application. Download it at www.autodesk.com/dwfwriter.

Autodesk DWF Viewer

The downloadable Autodesk DWF Viewer is a free, lightweight application enabling anyone to view and print 2D and 3D DWF files. Unlike other alternatives, the DWF Viewer preserves the integrity of complex drawings, maps and models, while providing access to rich design data. www.autodesk.com/dwfvviewer.

Autodesk DWF Composer

New Autodesk DWF Composer software is the only all-digital way to review, mark up, and revise designs without the original design creation software. Members of the design review team can easily view and print AutoCAD DWG and DWF files with accuracy and fidelity. Utilize measurement, redlining and annotation tools, complete sheet set organization, and powerful status tracking capabilities to communicate changes electronically. Then "round-trip" the DWF file, overlaying digital markups onto the original CAD file, streamlining the review and editing process. More information and a free trial at www.autodesk.com/dwfccomposer.

Autodesk DWF Toolkit

Autodesk publishes the DWF specification, including C++ source code, making DWF available to anyone who wants to build applications to read, write, create, view, query, and print DWF files. www.autodesk.com/dwftoolkit.

Only DWF Will Do For Serious Design Work

In searching for electronic alternatives to paper-based design processes some designers in recent years have experimented with Adobe® PDF. As a format for graphic and text documents, however, PDF is less compact, slower, and not as precise as DWFs. Let's compare:

	DWF and DWF Viewer	PDF and Acrobat Reader
SMALLER		
File Size* (KBs)		
Architectural Sheet Set (7,273)	890	4,506
Manufacturing Sheet Set (10,774)	645	4,026
Civil Sheet Set (14,327)	4,312	15,932
Stadium Plan.dwg (4,917)	759	3,755
Hotel Model.dwg (2,177)	753	Error
Viewer Size	5 MB	22 MB
FASTER		
Creation Time (min:sec)		
Architectural Sheet Set	3:11	3:53
Manufacturing Sheet Set	0:57	1:10
Civil Sheet Set	3:27	4:23
Model-based Design	0:05	Error – Out of Memory
SMARTER		
Publish format	2D & 3D	2D
Precision (dpi)	60,000,000	4,000
Design intelligence		
• Preserve hyperlinks	Yes	No
• Named views	Yes	No
• Object properties	Yes	No
Accuracy and Fidelity		
• Snapping to geometry	Yes	No
• Real-world coordinates	Yes	No
• Viewport scales	Yes	No
• Merge control	Yes	No

Design Intelligence

Unlike PDF or other paper-centric file formats, DWF files can contain rich information from the original CAD model. This ensures that the user is receiving exactly what the author intended. It also allows users to query information beyond 2D graphics, like the dimensions of a door and the part numbers of materials to be used. Specifically, DWF files can contain:

- 3D models from Autodesk Inventor or other Autodesk 3D design applications
- CAD layers, views, and viewports
- Links, bookmarks, thumbnails, embedded fonts, etc.
- Object properties from Autodesk Architectural Desktop, and feature classification names from Autodesk Map 3D
- Component and mass properties published from Autodesk Inventor 9
- Sheet properties such as sheet name, drawing author, and timestamp
- Markups and markup properties published from Autodesk DWF Composer, including date and timestamp with reviewer information

*DWFs are on average 50% the size of eDrawings files. These comparisons were based on:
 • AutoCAD 2005
 • Adobe Acrobat Professional 6
 • AutoCAD 2005 Sample Sheet Sets – Architectural, Manufacturing, Civil



Autodesk, Inc.
 111 McInnis Parkway
 San Rafael, CA 94903
 USA

Autodesk is a registered trademark of Autodesk, Inc., in the USA and other countries. All other brand names, product names, or trademarks belong to their respective holders.

© 2004 Autodesk, Inc. All rights reserved.

00000000000114812